

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

### In re Patent Application Nos:

09/982383  
12/328871  
10/277039  
12/289216  
10/963877  
12/200348  
09/390966  
11/151183  
10/093681  
11/058116  
12/143243  
08/865276  
08/940578  
09/305263  
09/322891  
09/322270  
09/956392  
10/118705

Customer No.: 30678

### **Revocation and Power of Attorney**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

All previous powers of attorney and authorizations of agent are hereby revoked, and the undersigned hereby appoints the attorneys and agents of Connolly Bove Lodge & Hutz LLP associated with U.S. Patent and Trademark Office ("PTO") Customer Number 30678 to prosecute these applications and any U.S., foreign, or international applications under the Patent Cooperation Treaty based on them and to transact all business in the PTO connected therewith, and to receive all communications from the PTO, including the patent documents. Further

details about each application are found in the Appendix to this paper. The authority under this Power of Attorney of each person listed under the aforementioned PTO Customer Number shall automatically terminate and be revoked upon such person ceasing to be associated with Connolly Bove Lodge & Hutz LLP.

***Designation of Correspondence Address***

Please associate these applications with PTO Customer Number 30678 and send all notices, official letters, documents, communications, and other correspondence regarding these applications to the address:

Connolly Bove Lodge & Hutz LLP  
1875 Eye Street NW, Suite 1100  
Washington, DC 20006

or to the address currently associated with PTO Customer Number 30678. Please also record the respective Attorney Docket Numbers in the attached appendix in any applicable databases.

***Certificate Under 37 C.F.R. § 3.73(b)***

The Aerospace Corporation is the assignee of the entire right, title, and interest in these patents and applications by virtue of the chains of assignment shown in the attached Appendix, which are recorded in the records of the PTO. To the best of the undersigned's knowledge and belief, the titles are in the name of said assignee. The undersigned, whose title is supplied below, is empowered to sign this certificate on behalf of The Aerospace Corporation.

Signed: Robert Donald Matthews Date: May 12, 2009  
Name: Robert Donald Matthews  
Title: Assistant General Counsel  
Authorized Person for The Aerospace Corporation

**APPENDIX: DETAILS OF LISTED APPLICATIONS**

**Application No.: 09/982383**

Confirmation No.: 7672

Patent No. : 7,145,972

Filing Date: October 18, 2001

First Named Inventor: Rajendra Kumar

Title: POLYPHASE CHANNELIZATION SYSTEM

Attorney Docket No. 27592-00757-US

Chain of Title:

Assignment from inventors to The Aerospace Corporation, recorded in the records of the U.S. Patent and Trademark Office (PTO) at Reel 012284, Frame 0736, on October 18, 2001.

**Application No.: 12/328871**

Confirmation No.: 7740

Patent No. :

Filing Date: December 5, 2008

First Named Inventor: Rajendra Kumar

Title: POLYPHASE CHANNELIZATION SYSTEM

Attorney Docket No.: 27592-00757-US2

Chain of Title:

Assignment from inventors to The Aerospace Corporation, recorded in the records of the U.S. Patent and Trademark Office (PTO) at Reel 012284, Frame 0736, on October 18, 2001.

**Application No.: 10/277039**

Confirmation No.: 5181

Patent No.: 7,127,000

Filing Date: October 21, 2002

First Named Inventor: Charles Chiming Wang

Title: TURBO DECODING SYSTEM USING NTH ROOT METRICS FOR NON-GAUSSIAN COMMUNICATION CHANNELS

Attorney Docket No.: 27592-00758-US

Chain of Title:

Assignment from inventors to The Aerospace Corporation, recorded in the records of the U.S. Patent and Trademark Office (PTO) at Reel 013426, Frame 0325, on October 21, 2002

**Application No.: 12/289216**

Confirmation No: 5203

Patent No:

Filing Date: October 22, 2008

First Named Inventor: Charles C. Wang

Title: TURBO DECODING SYSTEM USING NTH ROOT METRICS FOR NON-GAUSSIAN  
COMMUNICATION CHANNELS

Attorney Docket No.: 27592-00758-US2

Chain of Title:

Assignment from inventors to The Aerospace Corporation, recorded in the records of the  
U.S. Patent and Trademark Office (PTO) at Reel 013426, Frame 0325, on October 21, 2002

**Application No.: 10/963877**

Confirmation No.: 2911

Patent No. : 7,098,848

Filing Date: October 12, 2004

First Named Inventor: David A. Ksienski

Title: PHASED ARRAY ANTENNA INTERMODULATION SUPPRESSION BEAM  
SMEARING METHOD

Attorney Docket No.: 27592-00759-US

Chain of Title:

Assignment from inventors to The Aerospace Corporation, recorded in the records of the  
U.S. Patent and Trademark Office (PTO) at Reel 016592, Frame 0623, on July 29, 2005.

**Application No: 12/200348**

Confirmation No.: 7580

Patent No.:

Filing Date: August 28, 2008

First Named Inventor: David A. Ksienski

Title: PHASED ARRAY ANTENNA INTERMODULATION SUPPRESSION BEAM  
SMEARING METHOD

Attorney Docket No.: 27592-00759-US2

Chain of Title:

Assignment from inventors to The Aerospace Corporation, recorded in the records of the  
U.S. Patent and Trademark Office (PTO) at Reel 016592, Frame 0623, on July 29, 2005.

**Application No.: 09/390966**

Confirmation No.: 7870

Patent No. : 7,072,414

Filing Date: September 7, 1999

First Named Inventor: GEE L. LUI

Title: GAUSSIAN MINIMUM SHIFT KEYING (GMSK) PRECODING COMMUNICATION METHOD

Attorney Docket No.: 27592-00760-US

Chain of Title:

Assignment from inventors to The Aerospace Corporation, recorded in the records of the U.S. Patent and Trademark Office (PTO) at Reel 010229, Frame 0912, on September 7, 1999.

**Application No.: 11/151183**

Confirmation No.: 5386

Patent No. : 7,071,862

Filing Date: June 10, 2005

First Named Inventor: John R. Scarpulla

Title: TRANSMISSION LINE ANALOG TO DIGITAL CONVERTER

Attorney Docket No.: 27592-00761-US

Chain of Title:

Assignment from inventors to The Aerospace Corporation, recorded in the records of the U.S. Patent and Trademark Office (PTO) at Reel 016691, Frame 0437, on June 10, 2005.

**Application No: 10/093681**

Confirmatin No.: 4469

Patent No.: 6,680,648

Filing Date: March 8, 2002

First Named Inventor: Tien M. Nguyen

Title: HIGH POWER AMPLIFIER PREDISTORTER SYSTEM

Attorney Docket No.: 27592-00762-US1

Chain of Title:

Assignment from inventors to The Aerospace Corporation, recorded in the records of the U.S. Patent and Trademark Office (PTO) at Reel 012694, Frame 0386, on March 8, 2002.

**Application No.: 11/058116**

Confirmation No.: 4474

Patent No. : 7,064,710

Filing Date: February 15, 2005

First Named Inventor: David A. Ksienski

Title: MULTIPLE BEAM STEERED SUBARRAYS ANTENNA SYSTEM

Attorney Docket No.: 27592-00763-US1

Chain of Title:

Assignment from inventors to The Aerospace Corporation, recorded in the records of the U.S. Patent and Trademark Office (PTO) at Reel 016286, Frame 0978, on February 15, 2005.

**Application No.: 12/143,243**

Confirmation No.: 8992

Patent No.:

Filing Date: June 20, 2008

First Named Inventor: David A. Ksienski

Title: MULTIPLE BEAM STEERED SUBARRAYS ANTENNA SYSTEM

Attorney Docket No: 27592-00763-US2

Chain of Title:

Assignment from inventors to The Aerospace Corporation, recorded in the records of the U.S. Patent and Trademark Office (PTO) at Reel 016286, Frame 0978, on February 15, 2005.

**Application No.: 08/865276**

Confirmation No.: 8223

Patent No.: 5,937,006

Filing Date: May 28, 1997

First Named Inventor: Christopher J. Clark

Title: FREQUENCY TRANSLATING DEVICE TRANSMISSION RESPONSE METHOD

Attorney Docket No.: 27592-00770-US1

Chain of Title:

Assignment from inventors to The Aerospace Corporation, recorded in the records of the U.S. Patent and Trademark Office (PTO) at Reel 008586, Frame 0933, on May 28, 1997.

**Application No.: 08/940578**

Confirmation No.: 5076

Patent No.: 6,064,694

Filing Date: September 30, 1997

First Named Inventor: Christopher J. Clark

Title: FREQUENCY TRANSLATING DEVICE TRANSMISSION RESPONSE SYSTEM

Attorney Docket No.: 27592-00770-US2

Chain of Title:

Assignment from inventors to The Aerospace Corporation, recorded in the records of the U.S. Patent and Trademark Office (PTO) at Reel 008739, Frame 0827, on September 30, 1997.

**Application No.: 09/305263**

Confirmation No.: 1863

Patent No.: 6,041,077

Filing Date: May 4, 1999

First Named Inventor: Christopher J. Clark

Title: FREQUENCY TRANSLATING DEVICE TRANSMISSION RESPONSE METHOD

Attorney Docket No.: 27592-00770-US3

Chain of Title:

Assignment from inventors to the Aerospace Corporation, recorded in the records of the U.S. Patent and Trademark Office (PTO) at Reel 008739, Frame 0827, on September 30, 1997.

**Application No.: 09/322891**

Confirmation No.: 8585

Patent No. : 6,127,899

Filing Date: May 29, 1999

First Named Inventor: Christopher Patrick Silva

Title: HIGH FREQUENCY ANHARMONIC OSCILLATOR FOR THE GENERATION OF BROADBAND DETERMINISTIC NOISE

Attorney Docket No.: 27592-00771-US1

Chain of Title:

Assignment from inventors to The Aerospace Corporation, recorded in the records of the U.S. Patent and Trademark Office (PTO) at Reel 010020, Frame 0339, on May 29, 1999.

**Application No.: 09/322270**

Confirmation No.: 7746

Patent No. : 6,211,663

Filing Date: May 28, 1999

First Named Inventor: Andrew Alfred Moulthrop

Title: BASEBAND TIME-DOMAIN WAVEFORM MEASUREMENT METHOD

Attorney Docket No.: 27592-00772-US1

Chain of Title:

Assignment from inventors to The Aerospace Corporation, recorded in the records of the U.S. Patent and Trademark Office (PTO) at Reel 010014 , Frame 0649, on May 28, 1999.



**Application No.: 09/956392**

Confirmation No.: 1825

Patent No. : 6,476,739

Filing Date: September 18, 2001

First Named Inventor: Gee L. Lui

Title: METHOD AND PROCESSING SYSTEM FOR ESTIMATING LIKELIHOOD RATIOS  
FOR INPUT SYMBOL VALUES

Attorney Docket No.: 27592-00773-US1

Chain of Title:

Assignment from inventors to The Aerospace Corporation, recorded in the records of the  
U.S. Patent and Trademark Office (PTO) at Reel 012196, Frame 0505, on September 18, 2001.

**Application No.: 10/118705**

Confirmation No.: 7951

Patent No. : 6,845,951

Filing Date: April 8, 2002

First Named Inventor: Paul Andrew Herman

Title: METHOD OF CONTROLLING POINTING FOR A FLEXIBLE STRUCTURE

Attorney Docket No.: 27592-00774-US1

Chain of Title:

Assignment from inventors to The Aerospace Corporation, recorded in the records of the  
U.S. Patent and Trademark Office (PTO) at Reel 012787, Frame 0496, on April 8, 2002.